

What is claimed is:

1 1. A windshield wiper drive apparatus having a windshield wiper
2 park position, the apparatus comprising:

3 a housing;

4 a rotatable drive gear adapted to be coupled to a windshield wiper for
5 driving the windshield wiper, a drive gear rotatably mounted in the housing; and

6 a non-contact position detector cooperatively arranged between the
7 drive gear and the housing to detect a rotation position of the drive gear
8 corresponding to the windshield wiper park position.

1 2. The windshield wiper apparatus of claim 1 wherein the position
2 detector comprises:

3 a magnetically responsive sensor mounted in the housing; and

4 a magnet movably disposed in the housing in an intersecting path of
5 movement with respect to the sensor, the magnet movable with the drive gear, the
6 sensor detecting each passage of the magnet therepast.

1 3. The windshield wiper apparatus of claim 1 wherein the magnet
2 is mounted on the drive gear.

1 4. The windshield wiper apparatus of claim 1 further comprising:
2 a cam rotatably mounted in the housing, the magnet carried on the
3 cam; and

4 interengaging members carried on the drive gear and the cam for
5 rotating the cam along with rotation of the drive gear in the normal direction of
6 rotation of the drive gear.

1 5. The windshield wiper apparatus of claim 4 wherein the
2 interengaging members comprise:

3 a projection carried on the drive gear; and

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1 6. The windshield wiper/drive apparatus of claim 4 wherein:
2 the interengaging members provide only unidirectional rotation of the
3 cam.

1 7. The windshield wiper drive apparatus of claim 4 wherein:
2 the interengaging member on the drive gear engages the interengaging
3 member on the cam only in a normal direction of rotation of the drive gear.